

Recombinant Human Kinase Insert Domain Receptor, GST-tagged, Active

Cat. No. KDR-340H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human KDR (789-end) was expressed by baculovirus in <i>Sf9 insect cell</i> using an N-terminal GST tag. MW = 110 kDa.
Species	Human
Source	Sf9 Cells
Protein Length	789-end a.a.
Description	KDR (or kinase insert domain receptor) is a growth factor receptor tyrosine kinase that was originally isolated from human endothelial cells where it plays a pivotal role in endothelial cell proliferation and differentiation. KDR and its mouse homolog Flk1 bind VEGF with high affinity and are implicated in the development of new blood vessels (angiogenesis). The expression levels of VEGF and KDR are highly correlated during the normal development of the ocular vasculature in humans (1). Induction of angiogenesis is a critical step in tumor progression, and inhibitors of KDR have been demonstrated both to induce tumor regression and reduce metastatic potential in preclinical models.
Sequence	789-end.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after

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centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

GENE INFORMATION

Gene Name	KDR kinase insert domain receptor (a type III receptor tyrosine kinase) [Homo sapiens]
Synonyms	KDR; kinase insert domain receptor (a type III receptor tyrosine kinase); FLK1; CD309; VEGFR; VEGFR2; Vascular endothelial growth factor receptor 2; VEGFR-2; Kinase insert domain receptor; Protein-tyrosine kinase receptor Flk-1; EC 2.7.10.1; fetal liver kinase-1; soluble VEGFR2; tyrosine kinase growth factor receptor
Gene ID	3791
mRNA Refseq	NM_002253
Protein Refseq	NP_002244
MIM	191306
UniProt ID	P35968
Chromosome Location	4q11-q12
Pathway	Cytokine-cytokine receptor interaction; Endocytosis; Focal adhesion; VEGF signaling pathway; Signaling by VEGF
Function	ATP binding; growth factor binding; nucleotide binding; receptor activity; transferase activity; vascular endothelial growth factor receptor activity

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